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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/675,647	09/03/2003	Thomas S. Cohen	1811-US	5823

7590 09/10/2004  
Legal Department  
Teradyne, Inc.  
321 Harrison Avenue  
Boston, MA 02118

EXAMINER

GUSHI, ROSS N

ART UNIT	PAPER NUMBER
2833	

DATE MAILED: 09/10/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/675,647

Applicant(s)

COHEN ET AL.

Examiner

Ross N. Gushi

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-19 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-7 and 10 is/are rejected.
- 7) ☐ Claim(s) 9 and 11-19 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 9/30/03 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)             | 4) <input type="checkbox"/> Interview Summary (PTO-413)                     |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)    | Paper No(s)/Mail Date. ____.  |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date ____.   | 6) <input type="checkbox"/> Other: ____.                                    |

## DETAILED ACTION

### *Claim Rejections - 35 USC § 102*

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in —

(1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effect under this subsection of a national application published under section 122(b) only if the international application designating the United States was published under Article 21(2)(a) of such treaty in the English language; or

(2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that a patent shall not be deemed filed in the United States for the purposes of this subsection based on the filing of an international application filed under the treaty defined in section 351(a);

Claims 1-7 are rejected under 35 U.S.C. 102(e) as being anticipated by Stokoe et al. ("Stokoe"). Per claim 1, Stokoe discloses an electrical connector for single-ended signals that can be electrically connected to a printed circuit board, the electrical connector having ground conductors 250 and signal conductors 240 in a plurality of rows, comprising: each of the plurality of rows includes: a plurality of ground conductors and signal conductors; each signal conductor having a contact tail 241 that electrically connects to the printed circuit board; each ground conductor having at least two contact tails (254, 255) that electrically connect to the printed circuit board; and the signal conductors and the ground conductors are positioned adjacent to one another so that for each signal conductor contact tail, there are ground conductor contact tails adjacent either side of the signal conductor contact tail.

Per claims 2, 3, 4, the tails comprise press-fit contact tails or pressure mount tails or solder tails (col. 7, lines 15-25).

Per claim 5, the distance between tails is less than the distance between rows (see e.g. figures 14, 16).

Per claim 6, for each of the plurality of rows, a distance between a signal conductor contact tail and an adjacent ground conductor tail on one side is similar to a distance between the signal conductor contact tail and an adjacent ground conductor contact tail on the other side.

Per claim 7, the tails are aligned (see figures 16 and 17).

Claims 8 and 10 are rejected under 35 U.S.C. 102(e) as being anticipated by Nitta.

Per claim 8, Nitta discloses a connector including an insulative housing 4 including side walls and a base; a plurality of signal conductors 3, with each signal conductor having a first contact end connectable to the printed circuit board 1, a second contact end, and an intermediate portion therebetween that is disposed in the base of the insulative housing; a plurality of ground conductors 3, with each ground conductor having a first contact end connectable to the printed circuit board, a second contact end, and an intermediate portion therebetween that is disposed in the base of the insulative housing; the signal conductors and the ground conductors are arranged in a plurality of rows, with each row having signal conductors and ground conductors; for each of the plurality of rows, there is a corresponding ground strip (5,9) positioned adjacent thereto

disposed in the base of the insulative housing; and the ground strip is electrically connected to the ground conductors of the row.

Per claim 10, the ground strip includes projections 11 to connect to corresponding to ground conductors.

### ***Allowable Subject Matter***

Claims 9 and 11-19 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: Regarding claim 9, the prior art does not suggest the connector as claimed, including the combination of all the claimed elements, the combination including the relative heights as claimed. Regarding claim 11, the prior art does not suggest the connector as claimed, including the combination of all the claimed elements, the combination including the second end being bent as claimed. Regarding claim 15, the prior art does not suggest the connector as claimed, including the combination of all the claimed elements, the combination including the ground conductor including two tails as claimed.


### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ross Gushi whose telephone number is (571) 272-2005. If attempts to reach the examiner by phone are unsuccessful, the examiner's

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supervisor, Paula A. Bradley, can be reached at 571-272-2800 extension 33. The phone number for the Group's facsimile is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



**ROSS GUSHI**  
**PRIMARY EXAMINER**